

Title (en)

PERSONAL AIR FILTERING AND DELIVERY SYSTEMS

Title (de)

LUFTFILTERUNGS- UND LUFTZUFUHRSYSTEME FÜR PERSONEN

Title (fr)

SYSTEMES DE FILTRAGE ET D'APPORT D'AIR A DES PERSONNES

Publication

EP 0929356 A4 20010502 (EN)

Application

EP 98907540 A 19980218

Priority

- US 9803278 W 19980218
- US 3884297 P 19970218

Abstract (en)

[origin: US6119689A] An air filter unit includes an air filter made up of two layers of submicron filter media (32, 34) such as HEPA or ULPA filter media, with a layer of electrostatic filter media (33) sandwiched therebetween. Preferably, a layer of electrostatic filter media (31) is also provided on the upstream side of the submicron filter media (32). A personal delivery system for filtered air includes air delivery tubes (66) supported in relation to a user's face to position end air supply openings (67) adjacent opposite sides of the user's nose and mouth. Filtered air from the air supply tubes create a curtain or area of filtered air around the user's nose and mouth so the user breathes filtered rather than ambient air. An area delivery system includes a canopy (87) over the area with filtered air supplied to the inside of the canopy.

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [X] EP 0448876 A2 19911002 - MINNESOTA MINING & MFG [US]
- [X] US 5193530 A 19930316 - GAMOW RUSTEM I [US], et al
- [X] GB 2050841 A 19810114 - VICKERS LTD
- [X] US 4430995 A 19840214 - HILTON JOSEPH R [GB]
- [A] US 5160517 A 19921103 - HICKS RICHARD E [US], et al
- [A] US 5288298 A 19940222 - ASTON WILLIAM T [US]
- [A] EP 0549299 A2 19930630 - RESCARE LTD [AU]
- [A] US 5240479 A 19930831 - BACHINSKI THOMAS J [US]

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